The Standard Specifications are revised as follows:

SECTION 706, BEGIN LINE 3, DELETE AND INSERT AS FOLLOWS:

706.01 Description

This work shall consist of the furnishing and placing of concrete or steel railings on bridges, and on top of *or aside* wingwalls and retaining walls, *and furnishing and placing reinforced concrete moment slabs* in accordance with 105.03.

MATERIALS

706.02 Materials

Materials shall be in accordance with the following:

Barrier Delineators	926.02(c)
Coarse Aggregate, Class B or Higher, Size No. 8	904
Concrete, Class C	702
Dowel Bars	910.01(b)10
Joint Materials	906
Organic Zinc Primer	909.02(a)2
Polyurethane Finish Coat	909.02(c)
Reinforcing Bars Steel, Epoxy Coated	910.01
Steel Bridge Railing Components	910.20

Concrete for reinforced concrete moment slabs shall be QC/QA PCCP in accordance with 501 or PCCP in accordance with 502.

Thrie-beam railing and guardrail elements for retrofit bridge railing shall be steel and shall be in accordance with the applicable requirements of 910.09, 910.11, and 910.12 for steel beam guardrail shown in 910.09, 910.11, and 910.12.

SECTION 706, AFTER LINE 66, INSERT AS FOLLOWS:

706.03.1 Concrete Railing With Reinforced Concrete Moment Slab

The railing portion shall be constructed in accordance with 602.03 except it shall be cast in place. Type D-1 contraction joints in the moment slab shall match the locations of the joints in the abutting PCC pavement. If the abutting pavement is HMA, the D-1 contraction joints shall be spaced at 18 ft (5.5 m).

Moment slabs shall be formed with either steel or wood forms in accordance with 508.04(c)1 or 508.04(c)2. Vibration of the concrete shall be in accordance with 702.20(c).

The aggregate drainage layer shall be compacted in accordance with 302.06(b).

Type D-1 contraction joints and dowel bar assemblies shall be in accordance with 503.

Finishing and curing the moment slab shall be in accordance with 504. Finishing and curing the railing shall be in accordance with 702.

Job control testing for acceptance shall be in accordance with 502.05.

SECTION 706, BEGIN LINE 75, DELETE AND INSERT AS FOLLOWS:

706.05 Method of Measurement

Concrete railing, including all concrete work above the top of curb, will be measured by the linear foot (meter) or by the cubic yard (cubic meter) in accordance with the dimensions shown on the plans. No deductions will be made for reinforcing bars or joints. Concrete bridge railing transition will be measured per each for the type specified.

Reinforced concrete moment slabs will be measured by the square yard (square meter) for the thickness specified. Coarse aggregate placed under moment slabs will be measured by cubic yard (cubic meter) in accordance with 109.01(f). Type D-1 contraction joints will be measured in accordance with 503.07.

Reinforcing bars steel in the railing will be measured in accordance with 703.07.

Barrier delineators will be measured in accordance with 602.05.

Steel railing will be measured by the linear foot (meter) in accordance with the dimensions shown on the plans or as directed.

Linear measurements will be made from end to end of the railing along the centerline.

706.06 Basis of Payment

The accepted quantities of concrete railing will be paid for at the contract price per linear foot (meter) or cubic yard (cubic meter), for railing, concrete, of the elass type specified. Steel railing will be paid for at the contract unit price per linear foot (meter) of the type specified. Concrete bridge railing transitions will be paid for at the contract unit price per each for the type specified. Reinforced concrete moment slabs will be paid for at the contract unit price per square yard (square meter) for the thickness specified, complete in place. Coarse aggregate placed under moment slabs will be paid for at the contract unit price per cubic yard (cubic meter). Type D-1 contraction joints will be paid for in accordance with 503.08. Reinforcing bars steel for concrete railings and concrete bridge railing transitions will be paid for in accordance with 703.08. Barrier delineator will be paid for in accordance with 602.06.

Payment will be made under:

Pay Item	Pay Unit Symbol
Coarse Aggregate, No. 8	
Concrete Bridge Railing Transition,	
type	
Railing, Steel,	LFT (m)
type	
Railing, Concrete	LFT (m)
type	CYS (m3)

Reinforced Concrete Moment Slab, _____ SYD (m2)
thickness

The cost of painting, washers, rivets, welding, anchor bolts, and necessary incidentals shall be included in the cost of the pay items in this section.

Concrete railing which the Engineer has ordered removed and replaced in accordance with 706.03 shall be with no additional payment.

The cost of the epoxy coated reinforcing steel and tie bars in the moment slab shall be included in the cost of the reinforced concrete moment slab.

The cost of all labor and materials required to provide for the monolithic concrete coping with moment slabs shall be included in the cost of the moment slab.

The cost of furnishing and placing all materials not specified as pay items shall be included in the cost of the pay items in this section.



























